CENTRAL REGIONAL LABORATORY

Data Checklist

Data	Set OIR 2002 0066 Cheshire Monitoring Study	
	Suspended Particles)
	Chain of Custody	
9	Analysis Request Form(s)*	
	Sample Tags	
d	Transmittal Report w/signatures of the following:	

- Analyst(s)
- Environmental Data Coordinator

*Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations.

Prepared by: Sylvia Sriffin 6-3-02
Environmental Bata Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

JUN 0 3 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist FAA & ES Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: 20020066

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH43D01, 2002AH43S01, 2002AH43S02,

and 2002AH43S03.

Data	Management	Coordinator	and Date	Received

Date Transmitted: JUN /0 3 2002

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

Comments:

Office of Enforcement

CHAIN OF CUSTODY RECORD

PROJ. 02AH4		PROJEC Cheshire			g Styd)	, r			NO.				//	Activity Cod 12345—90107 A	ie:
SAMPLER Mike Murp		Name e Ke M	מאט	h-1	m.g	Men	/		OF		y t			// AIR 20020066	
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SO1	4/14	00:00	X		GHS			74P-75.0-25.0-2	1					5-340195 1 to 1	
SO2	4/14	00:00	Х		RVHS			*	1					5-340197 1 to 1	
SO3	4/14	00:00	X		ADDA	VILLE)		1					5-340198 1 to 1	
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Sample ld:	Station	Date / Time	Grab / Comp	Station Location		No Bottles	Tag Numbers
02AH43DO1	DO1	14/04/2002 00:00:00	Grab Com	GHS		1	5-340196 1 to 1
Bottle	No. 1	Parameter PM10					
Sample Id:	Station	Date / Time	Grab / Comp	Station Location		No Bottles	Tag Numbers
02AH43SO1	SO1	14/04/2002 00:00:00	Grab Com	GHS		1	5-340195 1 to 1
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Sample Id:	Station	Date / Time	Grab / Comp	Station Location		No Bottles	Tag Numbers
02AH43SO2	SO2	14/04/2002 00:00:00	○ Grab Com	RVHS		1	5-340197 1 to 1
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Sample ld:	Station	Date / Time	Grab / Comp	Station Location	rou	No Bottles	Tag Numbers
02AH43SO3	SO3	14/04/2002 00:00:00	Grab Com	ADDAVILLE		1	5-340198 1 to 1

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
V CITE II	
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
М	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or Q uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
U	This flag in used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY

FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 04/14/2002 LAB ARRIVAL DATE: 05/15/2002 DUE DATE: 06/05/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020066 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH43D01	GUIDING HANDS SCHOOL	0.0223			
2	2002AH43S01	GUIDING HANDS SCHOOL	0.0180			Sec
3	2002AH43S02	RVHS	0.0163			
4	2002AH43S03	ADDAVILLE	0.0172		10-4010	
DATE	OF ANALYSIS		05/21- 22/2002			
A	NALYST		<i>િ.</i> ૪	APPLIED AND TX-	- Andrew	

	(4)	* 2 6 3
Reviewed by:		Date: 5 131 100

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page of

arameter: PM 10 CRL.SOP: A16-047 Package Overview:	YES	NO
Raw Data Package Complete?	1 63	NO
Results Reported Correctly?		- 7
Special Requests Done?	1	
Calculations Checked?	NA	
Calibration Not Exceeded?		
Manual Peak Integration performed? Circle one IC or GC and Check	NA	
	NA	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	NA	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?		
Calibration Verification Checked?	NA	37
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	MA	1469
Matrix QC Checked?	NA	1
Digestion Blanks Checked?	NIA	
Spiked Blank Checked?	NIA	
LCS (if applicable) Checked?	4/13	
QCS (if applicable) Checked?	MA	
Final Check		
Technical Review Done?	V	
Narrative Complete?		V
Analyst: Peer Reviewer: FWW	175 E 17	

Data Set Number:	20020066	Parameter:	Suspended Particles	
Facility Name:	CHESHIRE MON	ITORING STUDY		-010-2-110-110-110-11
Study Name:	CHESHIRE MON	ITORING STUDY		
Date of Narrative:	05/22/2002	Analyst:	<u>ES</u>	
		Signature	2.8	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on May 15, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280019	2002AH43D01	5-340196
Q6280017	2002AH43S01	5-340195
Q6280015	2002AH43S02	5-340197
Q6280018	2002AH43S03	5-340198

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 05/21/2002 and was completed on 05/22/2002. All exposed filters were in good conditions. No sampler sn number was provided for filters Q6280015 and Q6280018 (CRL sample I.D number 2002AH43S02 and 2002AH43S03.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020066- 20020070

Date of Analysis 05/21-22/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences
Actual (g)	Balanced (g)	(g)
		Limit +/-0.0005 g
1.0000	1.0000	0.0000
1.0000 2.0000	1.0000 2.0001	0.0000 -0.0001

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date	0000000	weight (g)
Q6279991	2002AH47S01	05/22/02	Analyst 1	4.3634
Q6279991	2002AH47S01	05/22/02	Analyst 2	4.3638
Differences (Limit +/- 5	mg)			-0.0004
Q6279983	2002AH45S03	05/22/02	Analyst 1	4.3910
Q6279983	2002AH45S03	05/22/02	Analyst 2	4.3914
Differences (Limit +/- 5	ma)		77 20-00-00-00-00-00-00-00-00-00-00-00-00-0	-0.0004

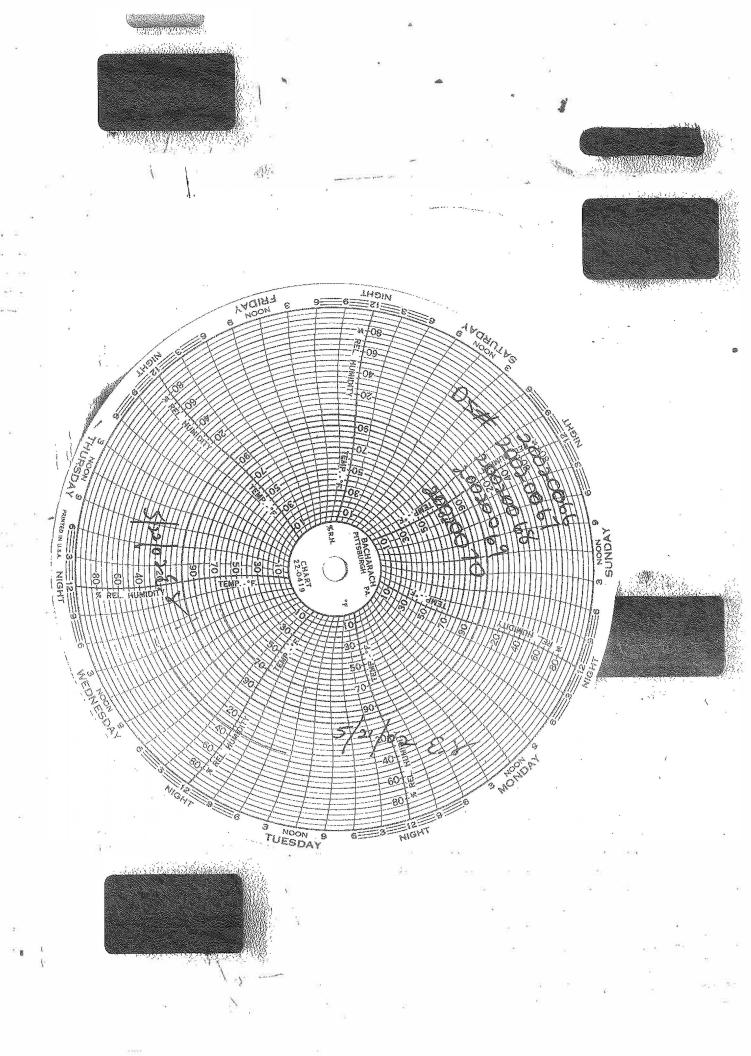
CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
Data set Nu	umber 20020066	100	.matt		5.01			•		,,,,-, ;	
Q6280019	2002AH43D01	04/14/02	Guiding Hands School	3013	20.55		0.00	4.3867	4.4090	0.0223	ERR
Q6280017	2002AH43S01	04/14/02	Guiding Hands School	3012	20.05		0.00	4.3607	4.3787	0.0180	ERR
Q6280015	2002AH43S02	04/14/02	RVHS		20.45	1	0.00	4.3751	4.3914	0.0163	ERR
Q6280018	2002AH43S03	04/14/02	Addaville		20.90		0.00	4.4018	4.4190	0.0172	ERR

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HINDORU TEM LANG A THOODING PROP. MNUTES AIR SOUR COOLE TEMP TO IVE TOW US EPA Region 5 Field Sample

S-340196-1 Sampler M. J. M. Preservative Nene Sample ID 02AH43D01 4-44-02 PERATOR Of the Parameters PW10 Ö Date IN SAMPLE WI THAL WI

TO TWEE MARCH THE CORDINATION LOCAL MINCITIO AIR 2002 OUTED TOTAL FLOW US EPA Region 5 Field Sample Sample ID 02AH43SO1 4-14-02 OPERATOR OF A Preservative None Parameters PM10 Sampler Date SARPINE TRA ST

STORY THE WAY TO STORY

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Preservative None S M MD B D

Sample ID 02AH43SO2 X

Sampler M.J. Mury

Date 4-14-02

US EPA Region 5 Field Sample

Parameters PM10

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OMMENTS:

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LANGERSAM STANSFERRING

Preservative None

AIR SUB COURC Parameters PM10

US EPA Region 5 Field Sample

SOUTH SERVICE STORY TOTAL TION HO SAMPLE WI